



U.S. Fish & Wildlife Service

National Conservation Training Center

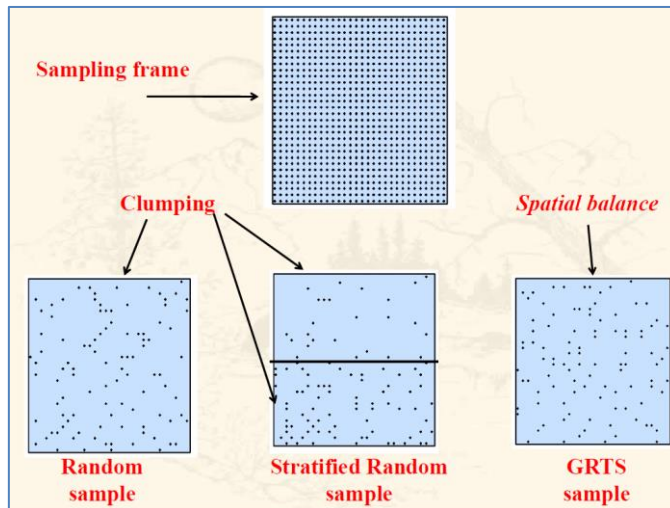
Training Announcement

Design and Analysis of Biological Monitoring

CSP4230

Course Description

Effective resource management requires reliable information on population status and trends. This course develops skills to design sampling protocols and analyze data for inventory and monitoring. The overall goal is to provide the toolsets necessary to determine the What, Why, When and Where of status and trend assessment. Topics covered in class include: site selection designs, sampling designs such as GRTS, BACI, stratified random and rotating panel designs, field methods and their influences on detectability, status and trend estimation. Time will be allocated for participants to work on their individual projects.



Objectives

Upon completion of this course, you will be able to:

- ✓ Conduct simple random, systematic, adaptive cluster, and distance sampling designs for estimation of population status and trends.
- ✓ Evaluate the design of monitoring studies to determine the power of detecting change in populations or habitats.
- ✓ Estimate detectability by distance sampling.
- ✓ Apply methods to account for observer bias and variable detection rates.
- ✓ Use regression models to detect trends.

Date & Location

Sept 24-28, 2018 - NCTC

Prerequisites

Familiarity with regression analysis and R software

Who Should Attend

Anyone involved in the design of field studies and the assessment of habitat or population trends.

Course Length

4.5 days

Tuition

Free for FWS, BLM and NPS employees, all others the cost will be \$1,195.00.

To Register

Log in and search the DOI Learn catalog for **CSP4230**

Course Contact

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"The field exercise provided a tangible, hands-on example of applying a variety of sampling and analysis techniques, and compared their advantages and disadvantages."